

RECEIVED
CENTRAL FAX CENTER

2003/015

DEC 18 2006

Application No.: 10/693,052

Docket No.: JCLA9844

AMENDMENT**To the Claims:**

Please amend the claims as follows:

Claim 1. (original) A method for discriminating an optical storage medium, comprising:
reading a predetermined range of the optical storage medium to obtain a plurality of data transition points, wherein each of transition regions is defined as an interval between two neighboring ones of the data transition points;
obtaining a longest transition region among the transition regions; and
discriminating a type of the optical storage medium according to a dimension of the longest transition region.

Claim 2. (original) The discrimination method according to Claim 1, wherein the discriminating step comprises:

obtaining a time-consumption for reading the longest transition region; and
comparing the time-consumption with a time threshold to discriminate the optical storage medium.

Claim 3. (original) The discrimination method according to Claim 2, wherein the optical storage medium is discriminated as a DVD when the time-consumption is smaller than the time threshold.

Application No.: 10/693,052

Docket No.: JCLA9844

Claim 4. (original) The discrimination method according to Claim 2, wherein the optical storage medium is discriminated as a CD when the time-consumption is larger than the time threshold.

Claim 5. (original) The discrimination method according to Claim 1, further comprising a step of obtaining a clock frequency for reading the optical storage medium.

Claim 6. (original) The discrimination method according to Claim 5, wherein the optical storage medium is discriminated as a blank disk when the clock frequency is substantially zero.

Claim 7. (original) A method for discriminating an optical storage medium, comprising:
obtaining a clock frequency for reading the optical storage medium; and
comparing the clock frequency with a frequency threshold to discriminate a type of the optical storage medium.

Claim 8. (original) The discrimination method according to Claim 7, wherein the optical storage medium is discriminated as a DVD when the clock frequency is larger than the frequency threshold.

Application No.: 10/693,052

Docket No.: JCLA9844

Claim 9. (original) The discrimination method according to Claim 7, wherein the optical storage medium is discriminated as a CD when the clock frequency is smaller than the frequency threshold.

Claim 10. (original) The discrimination method according to Claim 7, wherein the comparing step comprises a step of determining the optical storage medium as a blank disk when the clock frequency is substantially zero.

Claim 11. (currently amended) A method for discriminating an optical storage medium, comprising:

projecting a light beam onto the optical storage medium to obtain a distance between a reflection layer and a surface layer of the optical storage medium; and

comparing the obtained distance with a distance threshold to discriminate the optical storage medium, wherein a clock frequency is obtained for reading the optical storage medium to discriminate the optical storage medium when the obtained distance is larger than a failure threshold, wherein the clock frequency is compared with a frequency threshold to discriminate a type of the optical storage medium, wherein the optical storage medium is discriminated as a DVD when the clock frequency is larger than the frequency threshold and the optical storage medium is discriminated as a CD when the clock frequency is smaller than the frequency threshold.

Application No.: 10/693,052

Docket No.: JCLA9844

Claim 12. (original) The discrimination method according to Claim 11, wherein the optical storage medium is discriminated as a DVD when the obtained distance is smaller than the distance threshold.

Claim 13. (original) The discrimination method according to Claim 11, wherein the optical storage medium is discriminated as a CD when the obtained distance is larger than the distance threshold.

Claim 14. (original) The discrimination method according to Claim 11, wherein the comparing step comprises a step of determining the optical storage medium as a blank disk when a clock frequency for reading the optical storage medium is substantially zero.

Claim 15. (original) The discrimination method according to Claim 11, further comprising a step of reading a predetermined range of the optical storage medium to obtain a plurality of data transition points when the obtained distance is larger than a failure threshold, wherein each of transition regions is defined as an interval between two neighboring ones of the data transition points.

Claim 16. (original) The discrimination method according to Claim 15, further comprising:

Application No.: 10/693,052

Docket No.: JCLA9844

obtaining a longest transition region among the transition regions; and
discriminating a type of the optical storage medium according to a dimension of the
longest transition region.

Claim 17. (original) The discrimination method according to Claim 16, wherein the
discriminating step comprises:

obtaining a time-consumption for reading the longest transition region; and
comparing the time-consumption with a time threshold to discriminate the optical storage
medium.

Claim 18. (original) The discrimination method according to Claim 17, wherein the
optical storage medium is discriminated as a DVD when the time-consumption is smaller than
the time threshold and the optical storage medium is discriminated as a CD when the time-
consumption is larger than the time threshold.

Claim 19 and 20 (canceled)